Panasonic

TX–36PD30

Colour Television
(U.K. Standard)

[tau]

FLAT

DIGITAL

VIRTUAL
DOLBY
SURROUND

ACUiTY

QuintrixSR

OWNER I.D.

Operating
Instructions

Welcome

Dear Panasonic Customer,
We hope that you have many years of enjoyment from your new TV. The **Quick Start Guide** section at the beginning of this instruction book will allow you to use the TV as quickly as possible. We recommend that you then read the complete instruction book, and keep it to refer to as you explore the range of advanced features that this TV offers.

This TV has a low power consumption making it very cost effective to run. Also, when in **Standby** mode the power consumption is merely 0,5W.
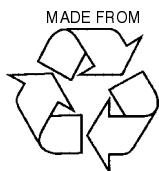
MADE FROM

This instruction book is produced using recycled paper, made from 100% Post – consumer waste pulp. De – inked without bleaching. Free from optical brightening agents (OBA).

100% RECYCLED PAPER

Contents

Warnings and precautions

- This TV set is designed to operate on 220-240V, 50Hz A.C.
- To prevent fire, never place any type of candle or naked flame on top of, or near the TV set.
- To prevent damage which might result in electric shock or fire, do not expose this TV set to rain or excessive moisture. This TV must not be exposed to dripping or splashing water and objects filled with liquid, such as vases, must not be placed on top of or above the TV.
- **WARNING : HIGH VOLTAGE !!!**
  Do not remove the rear cover as live parts are accessible when it is removed. There are no user serviceable parts inside.
- **TV Games / Home Computers**
  Extended use of TV games or home computers with any television set can cause a permanent 'shadow' on the screen. This type of irreversible picture tube damage, can be limited by observing the following points:
  - Reduce the brightness and contrast levels to a minimum viewing level.
  - Do not operate the television set for a continuous period of time while using TV games or home computers.
  - This type of picture tube damage, is not an operating defect, and as such is not covered by the Panasonic warranty.

- The On/Off switch on this model does not fully disconnect the TV from the mains supply. Remove the mains plug from the wall socket before connecting or disconnecting any leads or if the TV set is not used for a prolonged period of time.
  Note:
  - If the set is not switched off when the TV station stops transmitting, it will automatically go to standby mode after 30 minutes. This function will not operate when the TV is in AV mode.
- **Cabinet and picture tube care**
  Remove the mains plug from the wall socket. The cabinet and picture tube can be cleaned with a soft cloth moistened with mild detergent and water. Do not use solutions containing benzol or petroleum. TV sets can produce static electricity, care must be taken whenever touching the TV screen.
- Adequate ventilation is essential to prevent failure of electrical components, we recommend that a gap of at least 5cm is left all around this television receiver even when it is placed inside a cabinet or between shelves.
- Avoid exposing the TV set to direct sunlight and other sources of heat. To prevent fire, never place any type 0f candle or naked flame on top or near the TV set.

FOR YOUR SAFETY PLEASE READ THE FOLLOWING TEXT CAREFULLY

This appliance is supplied with a fitted three pin mains plug for your safety and convenience. A 5 amp fuse is fitted in this plug. If the fuse is replaced then the replacement fuse must be 5 amp rated and should be approved by ASTA or BSI to BS1362.

Check for the ASTA mark ⬦ASTA or the BSI mark ▽ on the body of the fuse.

If the fitted plug has a removable fuse cover you must ensure that it is refitted when the fuse is replaced. If you lose the fuse cover the plug must not be used until a replacement cover is obtained. Replacement fuse covers can be purchased through your local Panasonic dealer.

The plug fitted to this appliance incorporates a mains filter circuit. If this is removed or replaced with a non-filtered plug this television will no longer meet the European standards for Electromagnetic Compatibility (EMC). If the fitted plug is unsuitable for the socket outlet in your home an appropriate adapter should be used.

Nonetheless, if the fitted plug is replaced, the fuse should be taken out and the cut-off plug disposed of safely. There is danger of severe electrical shock if the cut off plug is inserted into any 13 amp socket.

If a new plug is to be fitted please observe the wiring code as shown below.
If in any doubt please consult a qualified electrician.

How to replace the fuse (for plug type shown in example 1) :
Lift out the removable fuse compartment with a screwdriver and replace the fuse, then refit securely into the mains plug (see example 1).

How to replace the fuse (for plug type shown in example 2) :
Lift open the fuse compartment, in the mains plug, with a screwdriver, and replace the fuse, then press the fuse cover down securely (see example 2).

Example 1
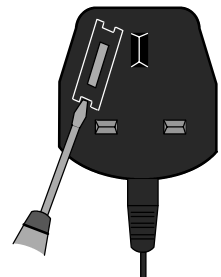
Example 2
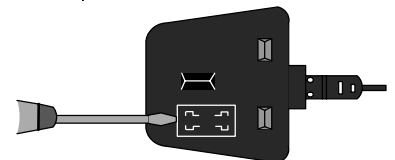
IMPORTANT :- The wires in the mains lead of this appliance are coloured in accordance with the following code :-

BLUE : NEUTRAL   BROWN : LIVE

As the colours of the wires in the mains lead of this appliance may not correspond to the markings identifying the terminals in your plug, proceed as follows :-

1.   The <u>BLUE</u> wire must be connected to the terminal marked 'N' or coloured black.

2.   The <u>BROWN</u> wire must be connected to the terminal marked 'L' or coloured red.

<u>IMPORTANT NOTE :</u> Under no circumstances should either of these wires be connected to the Earth terminal of the three pin plug, marked with the letter 'E' or the earth symbol.⏚

Accessories

Check that you have the accessories and items shown ✔

Operating Instruction book
TQB8E3925
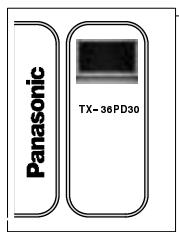
Remote Control
Transmitter
EUR511266

Batteries for the Remote
Control Transmitter.
(2 x R6 (UM3) size)

CRT Guarantee

TV Guarantee

Questionnaire

Video cabinet

VS-36PD

This set is supplied with a protective film covering the decorative front panel. This may be carefully removed.

Fitting remote control batteries
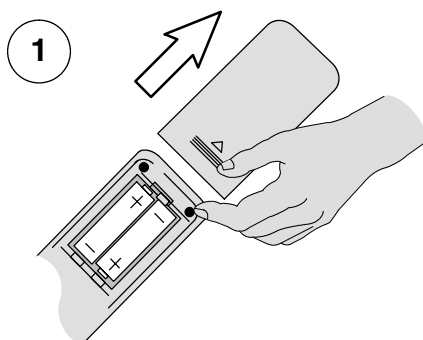
① Slide off the battery cover
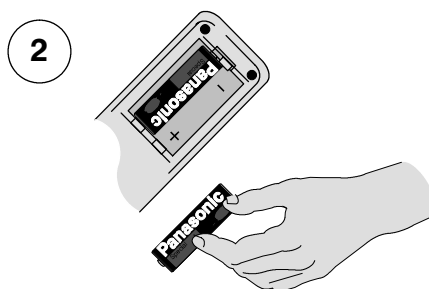
② Insert batteries - note correct polarity (+ and -)
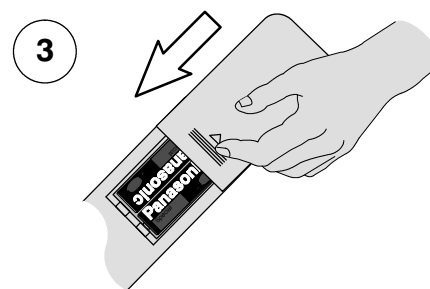
③ Replace the cover

- Make sure that the batteries are fitted the correct way round.

- Do not mix old batteries with new batteries. Remove old, exhausted batteries immediately.

- Do not mix different battery types, i.e. Alkaline and Manganese or use rechargeable (Ni–Cad) batteries.

Press here and open flap to expose TV controls, front AV3 and headphone terminals

MAINS Power
On / *Off* switch

Red light indicates
Standby mode. When
using the remote control,
indicates the TV has
received a command

STR (Normalisation store)
Used to store tuning and
other function settings

F (Function select)
Displays the On Screen Display functions, use repeatedly to select from the available
functions – *Volume*, *Contrast*, *Brightness*, *Colour*, *Sharpness*, *Tint* (in *NTSC* mode),
Bass, *Treble*, *Balance*, *Tuning* and *Geomagnetic Correction*

TV/AV switch
(see page 33)

Increases or decreases the
programme position by one. When
a function is already displayed,
press to increase or decrease the
selected function. When in
Standby mode, switches TV *On*

S – VHS socket
(see page 33)

Headphone socket
(see page 33)

RCA Audio/Video
sockets (page 33)

Standby On / *Off* switch
Switches TV *On* or *Off* standby

Menu buttons
Press to access the *PICTURE*, *SOUND*
and *SETUP* menus (see page 12)

Status button
Press to display programme position,
programme name, channel number,
time, *NICAM* mode, *ASPECT* mode,
Scan mode and programme table

Teletext buttons (see page 31)

Direct TV Record button (see page 28)

Dolby Virtual On / *Off* (see page 14)

ASPECT control button
(see page 23)

MULTI WINDOW button
(see page 26)

Direct channel access
During normal TV viewing or when in the
Tuning or *Manual tuning* menus, press and
then enter channel number using the numeric
buttons

N (Normalise) button
Resets all settings to their default levels

Stores some settings in *Tuning* and
Programme edit
menus.

Sound mute *On* / *Off*

Cursor buttons to make selections and
adjustments

Switch between viewing TV or AV input
(see page 33)

Coloured buttons used for
ASPECT functions (see page 23)
Programme edit functions (see page 17)
Teletext functions (see page 31)
AV selection (see page 33)
MULTI WINDOW functions (see page 26)

STILL button (see page 27)
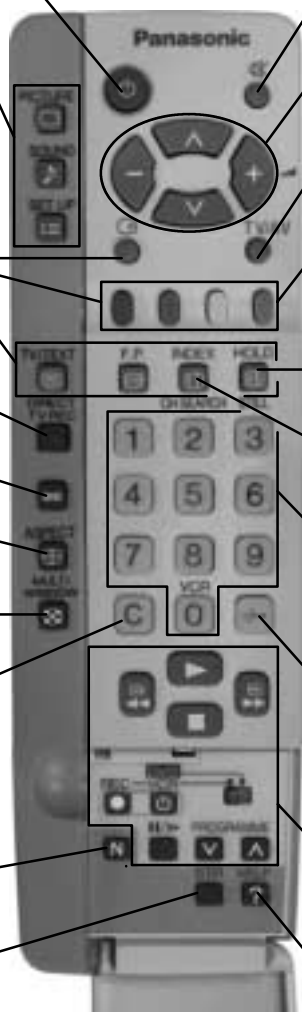
Channel search button (see page 27)

Programme / channel change
buttons (0–9) and Teletext page buttons
(see page 31)
When in *Standby* mode, switches TV *On*

Programme position for selection of two
digit programmes (10–99) using
numeric buttons

VCR / *DVD* buttons
(see page 30)

The *HELP* button provides a
demonstration of On Screen
Display menus

Quick Start Guide

Connection and setting up options

● If connecting the TV using an RF cable only, see below.

● If connecting the TV using Scart and RF cables, see page 6.

● If connecting the TV to a Q-Link (or Q-Link compatible) VCR or DVD recorder, see page 7.

● If connecting the TV to a Q-Link (or Q-Link compatible) VCR or DVD recorder and a satellite receiver, see page 8.

Connection of TV using an RF cable only

RF connection

● Connect the RF cable into the TV Aerial socket (⊐Γ).

TV
Mains
Socket

Aerial
Input
socket

Connection of TV and VCR using Scart and RF cables

Scart connections

● The VCR can also be connected to the TV using a Scart cable if you are using a Scart equipped device VCR.

● Use the TV's AV1 or AV5 Scart socket for a VCR.

● Use the TV's AV2S or AV4S Scart socket for an S–Video VCR.

RF connection

● Connect the RF cable to the VCR Aerial In socket and an RF cable from the VCR Aerial Out socket to the TV Aerial socket (⊐Γ).
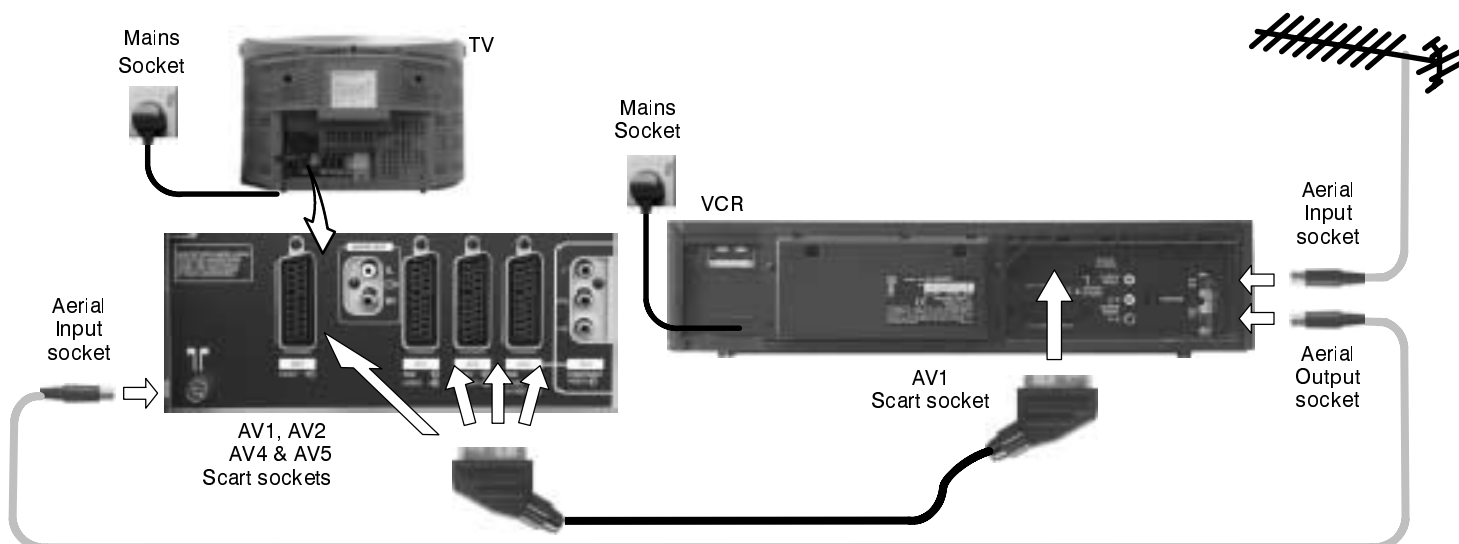
Mains
Socket
TV

Mains
Socket

VCR

Aerial
Input
socket

Aerial
Input
socket

AV1
Scart socket

Aerial
Output
socket

AV1, AV2
AV4 & AV5
Scart sockets

Notes :

● Additional equipment and cables are not supplied.

● Further details of audio/ video connections can be found on pages 33 and 34.

Quick Start Guide

Q−Link connection of TV and VCR / DVD recorder using Scart and RF cables

Scart Connections
- The VCR / DVD Recorder can also be connected to the TV using a Scart cable, if you are using a Scart equipped device.
- Use the TV's AV2 Scart socket for any VCR. Always use a "fully wired" Scart cable.
- Use the TV's AV4 Scart socket for any DVD Recorder. Always use a "fully wired" Scart cable.

RF Connection
- Connect the RF cable to the "Aerial In" socket of the VCR / DVD Recorder and an RF cable from the VCR / DVD Recorder Aerial Out socket to the TV Aerial socket (⊓⊏).

Notes :
If using a "Q-Link" VCR, then the AV1 Scart of the VCR must be connected to the AV2 socket of the TV. If using a "Q-Link" DVD Recorder, then the AV1 Scart of the DVD Recorder must be connected to the AV4 socket of the TV. If your VCR or DVD Recorder is not a "Q-Link" device, please consult the operating instruction book for that product.

If two "Q−Link" compatible devices are connected to this TV at the same time, information will be automatically downloaded via the AV2 socket. If you wish to download via the AV4 socket, see page 18

Further information on Q-Link can be found on page 28.
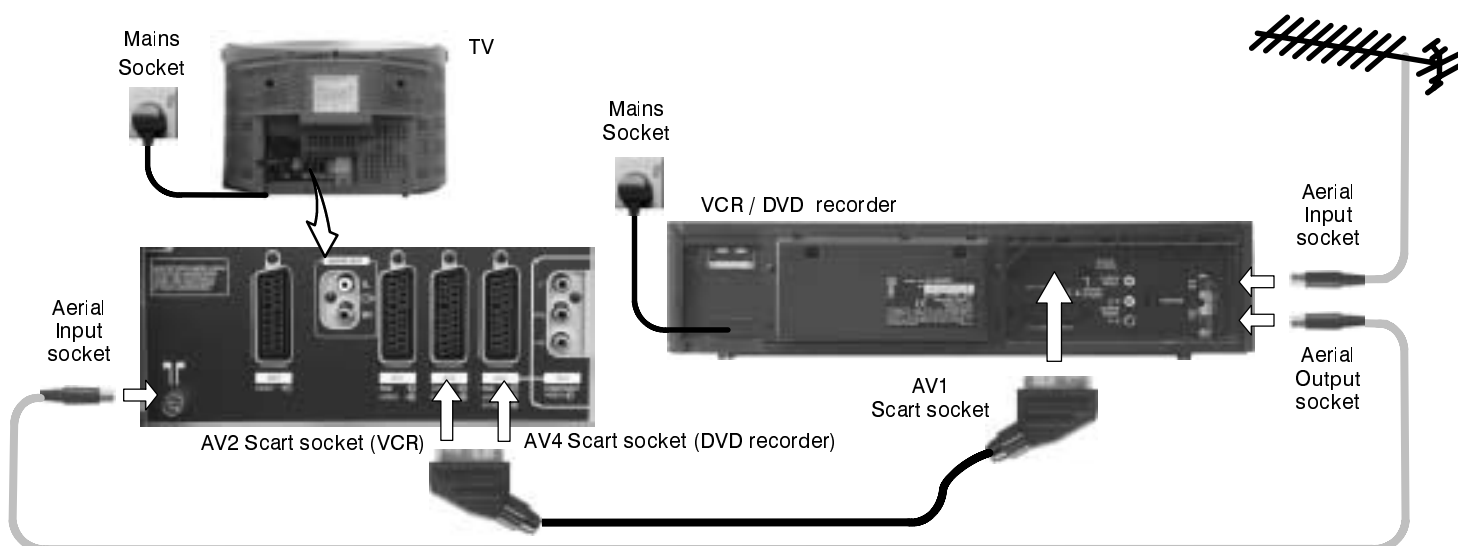
Mains Socket   TV

Mains Socket

VCR / DVD recorder

Aerial Input socket

Aerial Input socket

Aerial Output socket

AV1 Scart socket

AV2 Scart socket (VCR)   AV4 Scart socket (DVD recorder)

Notes:
- Additional equipment and cables are not supplied.
- Further details of audio/ video connections can be found on pages 33 and 34.
- Further information for VCR, DVD recorder and Satellite Receiver installation with this TV can be found on page 29.

Q–Link connection of TV, VCR / DVD recorder and Satellite using Scart and RF cables

For Q-Link to function correctly the TV, VCR or DVD recorder and Satellite Receiver must be connected as shown in the diagram below.

Scart connections
'Fully wired' Scart cables should be used for all of the Scart connections.
- The AV2 Scart of the VCR or DVD recorder must be connected to the VCR socket of the Satellite Receiver.
- The TV Scart socket of the Satellite Receiver must be connected to the AV1 Scart socket of the TV.
  ### Note:
  - If using a "Q-Link" VCR or DVD recorder, then the AV1 Scart of the VCR must be connected to the AV2 socket of the TV or the AV1 Scart of the DVD recorder must be connected to the AV4 socket of the TV. If your VCR is not a "Q-Link" VCR, please consult your VCR operating instruction book.
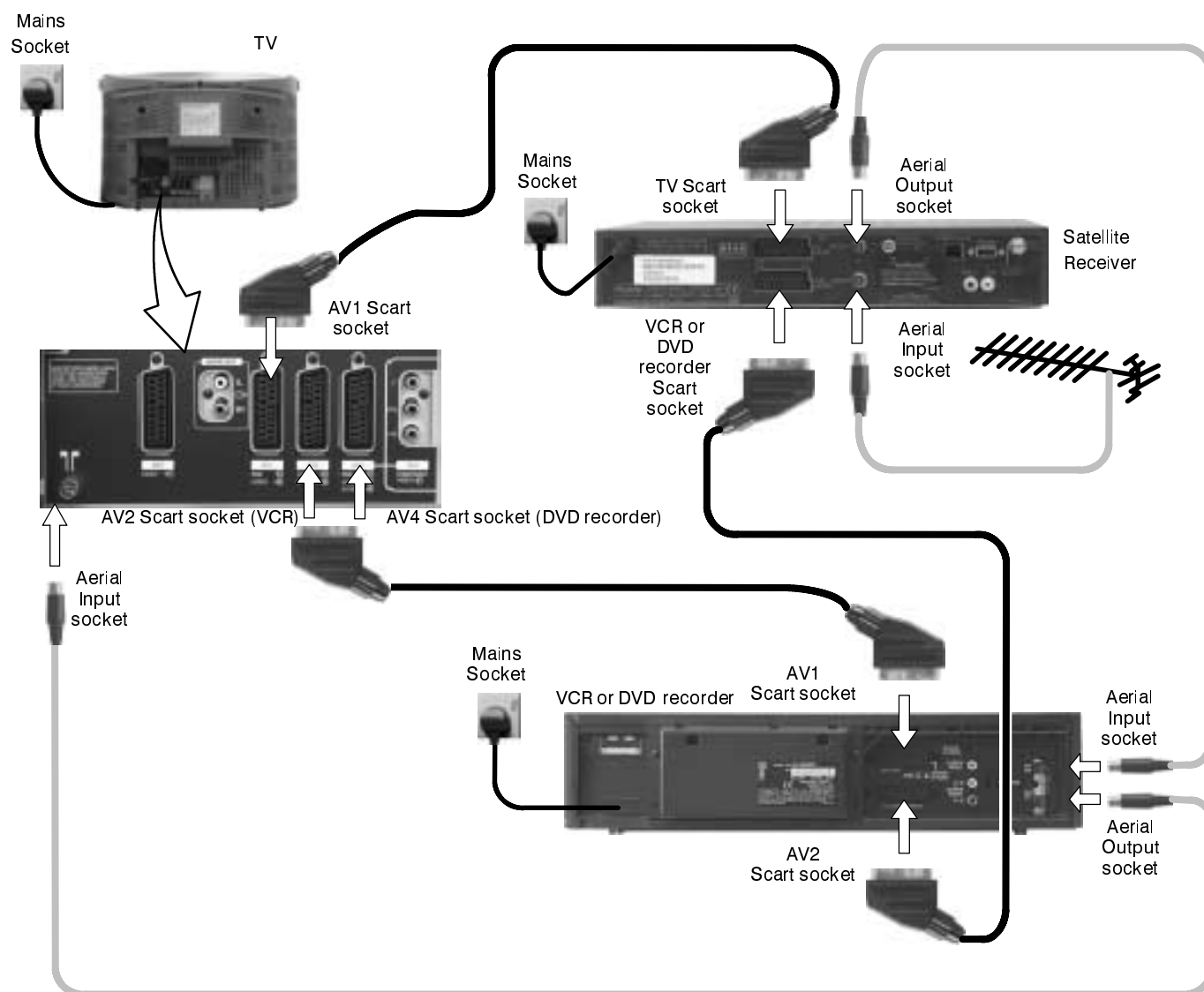
RF connections
- Connect an RF cable to the Aerial In socket of the Satellite Receiver.
- Connect an RF cable from the RF Out socket of the Satellite Receiver to the RF In socket of the VCR or DVD recorder.
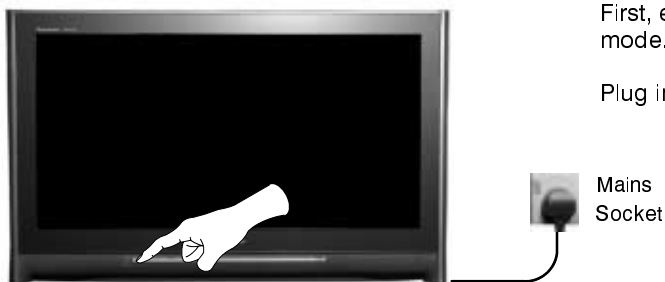- Connect an RF cable from the RF Out socket of the VCR or DVD recorder to the TV Aerial In socket (⌐⌐).

Notes:
- Additional equipment and cables are not supplied.
- Further details of audio/ video connections can be found on pages 33 and 34.
- Further information for VCR, DVD recorder and Satellite Receiver installation with this TV can be found on page 29.

(4)

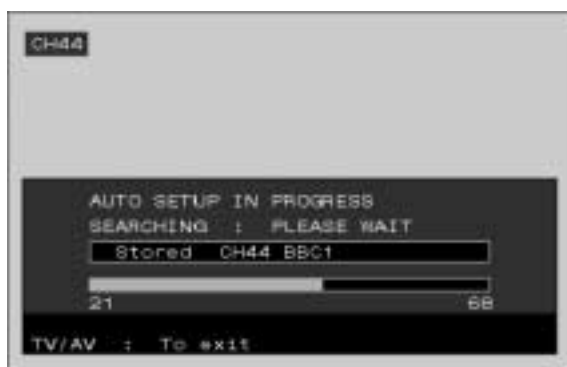First, ensure that the recording device is in **Standby** mode.

Plug in TV and switch on.

Mains Socket

(5)

CH44

AUTO SETUP IN PROGRESS
SEARCHING : PLEASE WAIT
Stored CH44 BBC1

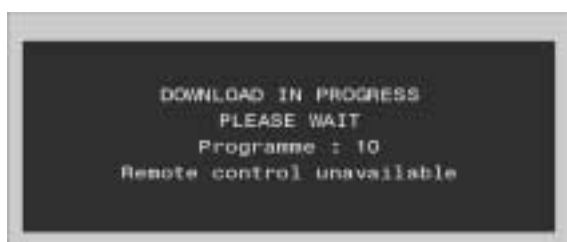21   68

TV/AV : To exit

Programmes will appear immediately if your dealer has programmed the TV for you.

If the TV has not been programmed for you then **Auto setup** will begin, your stations will be located, sorted into order and stored ready for use.

TV to VCR / DVD recorder download
If a Q-Link, NEXTVIEWLINK or compatible recording device has been connected to the correct Scart socket before starting Step 1, programme information will be downloaded to the device via Q–Link.

(6)

DOWNLOAD IN PROGRESS
PLEASE WAIT
Programme : 10
Remote control unavailable

Downloaded tuning data will match the television's.

Not all recording devices support this download of programme information, some may require to be started manually. Refer to the device's operating instruction book.

If a recording device other than those described above has been connected, then there will be no download operation.

Notes :
If the recording device has not accepted download data from the TV, you may need to select the Download option from the device's menu system.
Refer to the recording device's operating instruction book.

If Q-Link is not operating correctly, check the following :

● The Scart cable is connected to the TV's correct Scart socket.
● The Scart cable is connected to the VCR's compatible (Q-Link, NEXTVIEWLINK or similar technology) Scart socket.
● The Scart cable is a "fully wired" type.

For further information on Q-Link and connecting equipment, see pages 28, 33 and 34.
● The sorted programme order depends upon the TV signal, the broadcasting system, and reception conditions.
  If the order is not to your preference it can be rearranged. Refer to the Programme edit menu - see page 17 for details.
● If you have a digital satellite receiver, you can start Auto setup with the receiver set to any channel. You will then have to manually name the 'SAT' position after Auto setup is complete. Refer to the Programme edit menu – see page 18 for details.

Prog. Position	All channels	No CH5	No CH5 / S4C	No CH4 / CH5	No S4C	No CH4 / S4C	No CH4 / S4C / CH5
1	BBC1	BBC1	BBC1	BBC1	BBC1	BBC1	BBC1
2	BBC2	BBC2	BBC2	BBC2	BBC2	BBC2	BBC2
3	ITV	ITV	ITV	ITV	ITV	ITV	ITV
4	CH4	CH4	CH4	S4C	CH4	CH5	SAT
5	S4C	S4C	SAT	SAT	CH5	SAT	◯
6	CH5	SAT	◯	◯	SAT	◯	◯
7	SAT	◯	◯	◯	◯	◯	◯

Note :
◯ The next available channel will appear, if no other stations are available then the Programme position will remain unused.

7

Owner ID
As an added feature, this TV has the option of entering a security code (Owner ID) and personal details into its memory, so that in the unfortunate event of theft it will help the police to trace the owner.

Enter required 4 digit Owner ID **PIN NUMBER** (using 0 to 9 on the remote control)

Press the **TV/AV** button at any time to exit the Owner ID feature without saving any information you may have entered.

TV/AV

8

Enter **NAME**, **HOUSE NUMBER** and **POSTCODE**

If a 4 digit **PIN NUMBER** was entered above, you will be taken automatically to the **NAME** line

If not, move to the **NAME** line

Change character
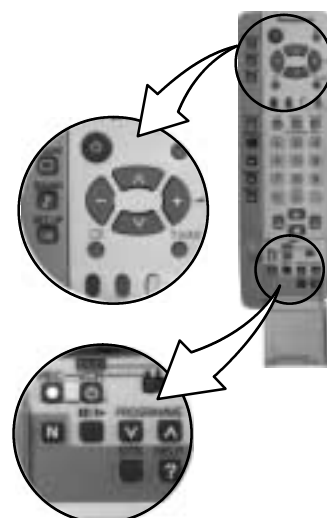
Select character position

Repeat above until **NAME**, **HOUSE NUMBER** and **POSTCODE** are entered

Press **STR** to store the details

STR

Press **STR** again, when you are asked "Are you sure?"

STR

For further information on Owner ID, including how to view the details you have stored, see page 22.
A space is provided on page 22 to write down your **PIN NUMBER** for future reference.

Quick Start Guide

9 **Geomagnetic Correction (picture tilt)**
Slight tilting of the picture may be noticeable, the **Geomagnetic Correction** feature can be used to eliminate this, if necessary:

Ensure the **Auto setup** and **Q – Link** download procedures are complete. The screen should not be showing any On Screen Display menus.

Using the remote control keys indicated, access the **Geomagnetic Correction** menu option and follow the procedure below (for a full explanation of the On Screen Display menu system see page 12) :
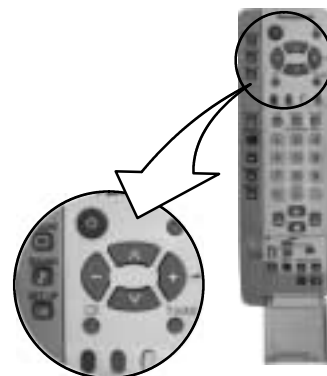
Press the **SETUP** menu button

SET UP

Move to the **Geomagnetic** menu option

Access the **Geomagnetic** menu. Horizontal guide bars and tilt adjustment indicator appear to help you eliminate any screen tilt

000

Adjust the picture tilt as necessary

+006

Press the TV/AV button to exit the **SETUP** menu

TV/AV

10 You are now ready to begin viewing programmes

The cursor controls provide the two basic functions:

Adjust Volume   Change Programme

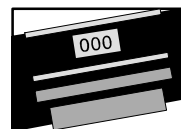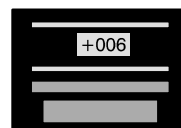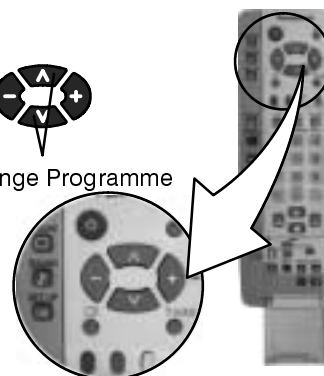Many features available on this TV can be accessed via the On Screen Display menu system. Use the remote control as shown below to access and adjust features as desired.

The **PICTURE**, **SOUND** and **SET UP** buttons are used to open the main menus and also to return to the previous menu

PICTURE   SOUND   SET UP

The up and down cursor buttons are used to move the cursor up and down the menus

The left and right cursor buttons are used to access menus, adjust levels or to select from a range of options

The **STR** button is used with a number of features to store settings after adjustments have been made or options have been set

STR

The **TV/AV** button is used to exit the menu system and return to the normal viewing screen

TV/AV
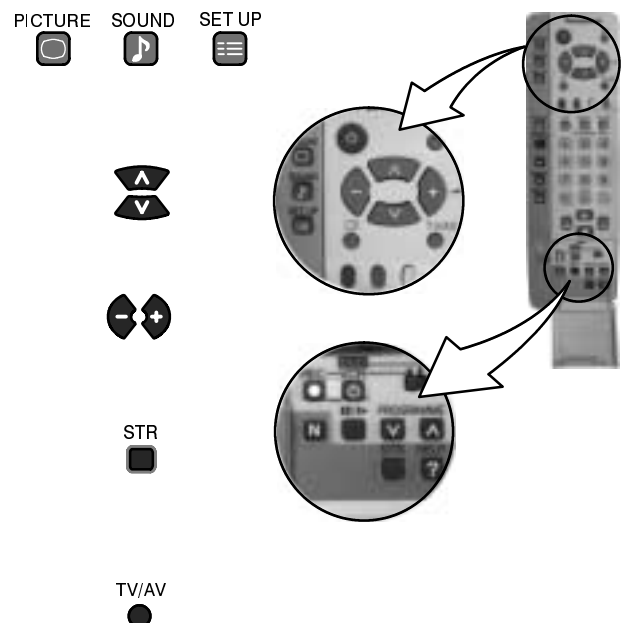
An On Screen Help box is displayed whenever a menu is displayed on the TV. This Help box indicates which keys on the remote control are used to navigate the menu shown, see above for descriptions of button functions.

ON SCREEN HELP 'Instructions' box

Note:
● The Help box is not shown in the menu pictures in this instruction book due to space limitations.

Select
Change
TV/AV -Exit

Picture menu

Viewing Mode   Dynamic
Contrast
Brightness
Colour   —   +
Sharpness
Colour balance   Normal
P-NR   Off
Scan mode   100 Hz

The **HELP** button runs a demonstration of the menus available.

Press the **HELP** button and select one of the options

HELP

Help menu

HOW TO USE THE MENUS
Press the MENU keys to
open or close the menus

Use the ∨ ∧ keys on the
remote to move between
menu options

Use the − + keys to
adjust the chosen option or
to access the chosen menu

Press the TV/AV key to
go back to watching TV

Acuity demonstration
External Connection   Access
Menu demonstration

MENU
TV/AV

Press the **PICTURE** menu button

Move to chosen menu option

Adjust chosen option

Press the **TV/AV** button at any time to go back to watching TV.

PICTURE
⊙
TV/AV

Viewing mode

The Viewing mode menu allows you to select three different screen settings – Dynamic, Normal and Cinema.
In each Viewing mode setting, Contrast, Brightness, Tint (in NTSC only), Colour, Sharpness and Colour balance can be adjusted to suit your particular viewing requirement (for example, you may require different settings for viewing sport, films, news etc.)
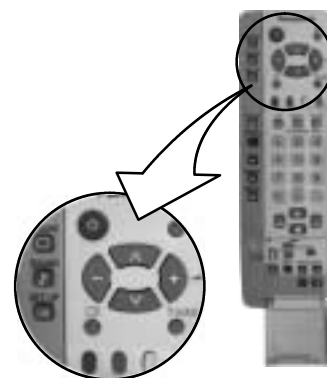Viewing mode offers you up to a maximum of three separate settings for each signal source: RF, AV1, AV2, AV3, AV4 (including RGB) and AV5. Changes will be stored automatically.
By analysing and processing the incoming picture, all three modes feature automatic enhancement.

Contrast
Brightness
Colour
Sharpness

Increase or decrease the levels of these options according to your personal preference.

Tint

With an NTSC signal source connected to the TV this menu option is available; the option allows adjustment of the picture hue to suit your taste.
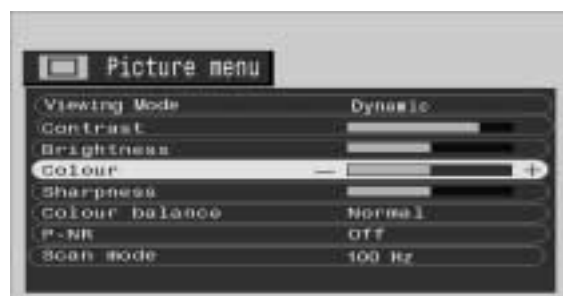
Colour balance

Allows you to set the overall colour tone of the picture. Choose from **Cool**, **Normal** and **Warm**.

P–NR

Automatically reduces unwanted picture noise.

Scan mode

Lets you choose the screen refresh method:
100Hz will give a steady picture for most signal transmissions;
To avoid line flicker or any picture noise use
100Hz Plus
75/833i can be used for viewing graphics and still pictures.
When PAL 60 or an NTSC signal is received, the TV will select **Progressive** automatically.

> **Note:**
> ● When viewing a PAL source (other than PAL 60) with **Scan mode** set to **Progressive**, the screen will flicker, this is not a fault.

13

Press the **SOUND** menu button
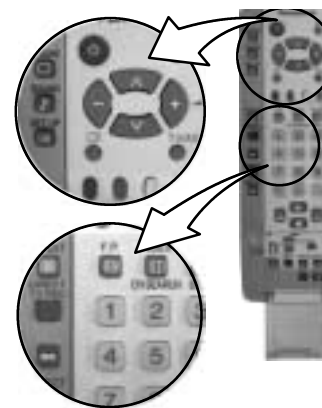
Move to chosen menu option

Adjust chosen option or access chosen menu

Press the **TV/AV** button at any time to go back to watching TV

SOUND
♪
∧
∨
– +

TV/AV
●

Volume	Lets you set the overall output volume.
Bass	Increase or decrease level to enhance or minimise lower, deeper sound output.
Treble	Increase or decrease level to enhance or minimise sharper, higher sound output.
Balance	The levels of sound between the left and right speakers can be adjusted to suit your listening position.
Headphone volume	Can be adjusted independently of the TV speakers so that everyone can enjoy listening at a level comfortable for them. When in **picture and picture** mode, note that the headphones will relay the soundtrack for the programme in the left window (the current programme position). When using one of the other double window features, the soundtrack for the programme in the main window (rather than the smaller window) is relayed.
Subwoofer	Increase or decrease level to enhance or minimise bass output.
NICAM	Usually set to **On** to receive a stereo signal, but if reception deteriorates or if the service is not available then switch to **Mono**. Mono (**M1**) and (**M2**) can also be selected if a mono signal is being transmitted.
Dolby virtual	Dolby Virtual uses two speakers to simulate the surround effect produced by a multichannel system. Dolby Virtual feature works with Dolby encoded signal only.
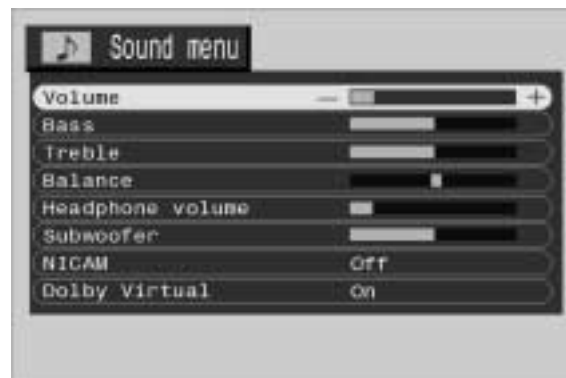
Sound menu

Volume	— ▭ +
Bass	
Treble	
Balance	
Headphone volume	
Subwoofer	
NICAM	Off
Dolby Virtual	On

Press the **SETUP** menu button
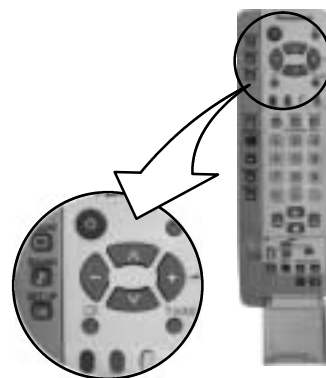
Move to chosen menu option

Adjust chosen option or access chosen menu

Press the **TV/AV** button at any time to go back to watching TV.

SET UP

∧
∨

– +

TV/AV

Q–Link

Allows you to select which AV socket is to be used for data communication between this TV and a compatible recording device. Choose from AV2 (VCR) and AV4 (DVD recorder).See page 28.

AV2 / AV4 out

Offers a choice of signals to send to the Scart socket selected in the Q–Link option. You can choose from the current **TV** programme position, the signal entering **AV1** /**AV2**/ **AV3** / **AV4**/ **AV5** or **Monitor** – the picture displayed on screen.

Setup Menu

Q- Link	Av2
Av2 out	TV
Teletext	List
Off timer	Off
3D-Comb	ON
Tuning menu	
Geomagnetic	

Teletext

Allows you to choose between **FASTEXT** or **LIST** mode. See page 31.

Off timer

Switches the TV off within a preset time which you can choose from between 0 to 90 minutes in 15 minute intervals.

3D Comb (PAL / NTSC)

Select 3D Comb filter to reduce colour patterning for certain types of picture source.

Tuning menu

Provides access to many other features including **Programme edit** and **Auto setup**. See page 16.

Volume correc.

(Available in AV mode only). Lets you adjust the volume level of individual AV inputs. This feature allows you to bring the volume level of one AV input into line with the current (RF) programme and the other AV inputs so you won't need to adjust the volume each time you change the programme viewed.

Geomagnetic

If you notice a slight tilt to the picture, use this feature to eliminate it. See Step 9, page 11 (Quick Start Guide).

Press the **SETUP** menu button

Move to **Tuning menu** option

Access **Tuning menu**

Move to chosen menu option

Adjust chosen option or access chosen menu

Press the **TV/AV** button at any time to go back to watching TV

Pressing the **STR** button after having adjusted some features will store the setting as the default (replacing the factory setting)
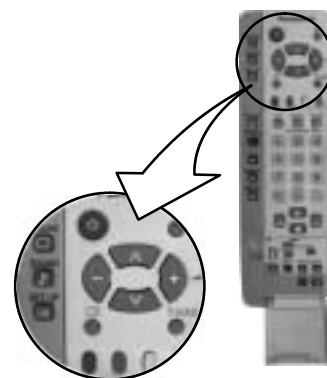
SET UP

TV/AV

STR

Programme edit

Access in order to customise your programme settings (eg: adding or deleting a programme position). See page 17.

Auto setup

Allows you to automatically retune the TV. Useful if you move house and wish to retune your TV to the local stations. See page 19.

Setup Menu	
Q-Link	Av2
Av2 out	TV
Teletext	List
Off timer	Off
3D-Comb	On
Tuning menu	Access
Geomagnetic	

Manual tuning

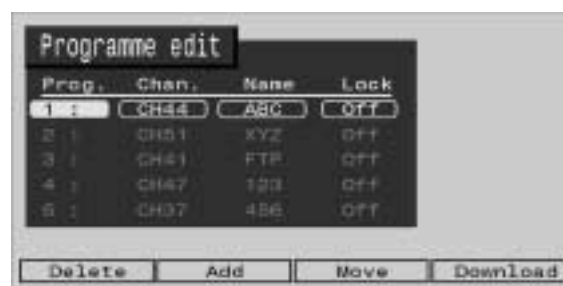Allows individual programme positions to be tuned manually. See page 20.

Decoder (AV2)

This option is used when a decoder is connected via AV2 or AV4. Store the setting as **On** so that every time this programme position is selected, the TV software is set to handle the decoded information (this is important if your decoder unit is connected to AV2 or AV4 via a Q–Link device).

Tuning Menu	
Programme edit	Access
Auto setup	
Maunual tuning	
Decoder (Av2)	Off
Shipping condition	
Owner ID	

Shipping condition

Allows you to clear all tuning information and reset all control levels back to factory settings. See page 21.

Programme edit			
Prog.	Chan.	Name	Lock
1 :	CH44	ABC	Off
2 :	CH51	XYZ	Off
3 :	CH41	FTP	Off
4 :	CH47	123	Off
5 :	CH37	456	Off

| Delete | Add | Move | Download |

Owner ID

Allows you to enter a security code and address information. See page 22.

Tuning menu – Programme edit

Press the **SETUP** menu button

Move to **Tuning menu** option

Access **Tuning menu**

Move to **Programme edit** option

Access **Programme edit**

Move to chosen programme position (eg: Prog. 3)

Make required change, eg: moving a programme channel (see the relevant procedure below)

Press the **TV/AV** button at any time to go back to watching TV

Pressing the **STR** button after having adjusted some features stores the change made
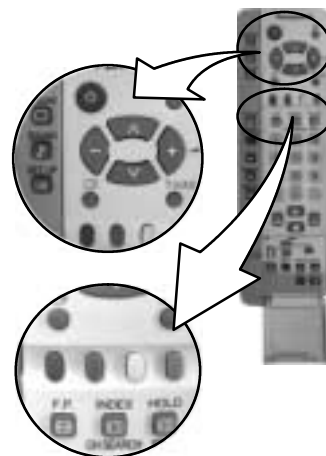
SET UP

TV/AV

STR

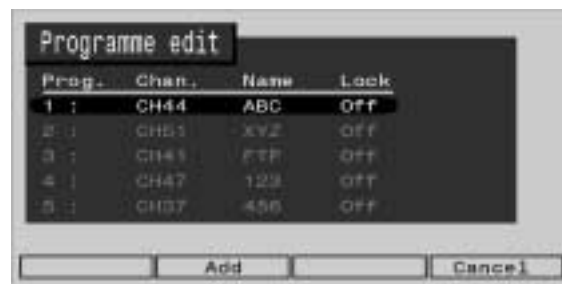## Adding / deleting a programme channel

Make sure the cursor is in the **Prog.** column

Press the green button to add a programme channel to the programme position, or the red button to delete one

Press the same button again to confirm your decision

```
Programme edit

Prog.    Chan.    Name    Lock
 1 :     CH44     ABC     Off
 2 :     CH51     XYZ     Off
 3 :     CH41     FTP     Off
 4 :     CH47     123     Off
 5 :     CH37     456     Off

                  Add            Cancel
```

Moving a programme channel

Make sure the cursor is in the **Prog.** column

Press the yellow button

Choose the new position for the programme channel

Press the yellow on screen selector key again to confirm your decision

```
Programme edit

Prog.    Chan.    Name    Lock
 1 :     CH44     ABC     Off
 2 :     CH51     XYZ     Off
 3 :     CH41     FTP     Off
 4 :     CH47     123     Off
 5 :     CH37     456     Off

                  Confirm    Cancel
```

Renaming a programme channel

Move to the **Name** column

Choose the new character. The box at the bottom of the screen shows the character currently selected.

Move to the next character position

Continue until renaming is done

Press **STR** to store the new name

STR

Locking a programme channel

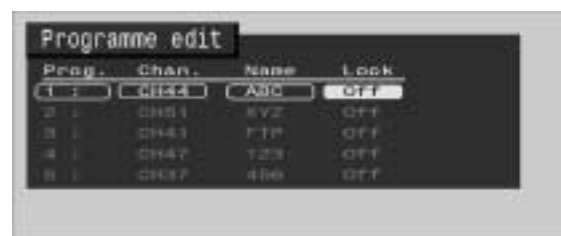You may wish to lock a programme channel to prevent access to it

Move to the **Lock** column

Choose between Lock **On** or Lock **Off**

Press **STR** to store the new setting

STR

Note:

● When a programme position is locked, Direct Channel Access using the **C** and numeric buttons on the remote control is not available

Copying programme information to a VCR / DVD recorder

The following features are only available from the device connected to the scart socket selected using "Q–Link". (see page 15).
You can copy programme information to a compatible recording device connected to AV2 or AV4 (see page 34 for connection information)

Press the blue button.
Programme data will now be sent to the recording device. This might take a few seconds, depending on the number of stations stored. If the message "Feature not available" appears on the screen, the television is unable to send the programme information to the recording device. See the device's instruction book for further information.

Note:

● If you have a Q–Link recording device, ensure that it is in **Standby** mode. If your device is not Q–Link compatible, please refer to the device's instruction book.

18
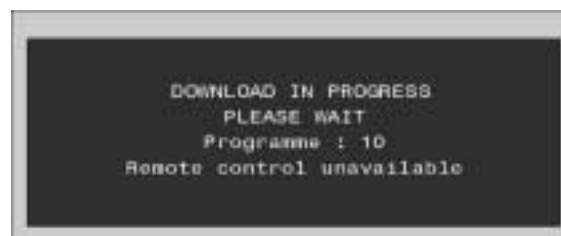
Tuning menu – Auto setup

Auto setup automatically retunes your TV. This feature is useful if, for example, you move house and wish to retune your TV to receive the local stations.

Press the **SETUP** menu button

SET UP

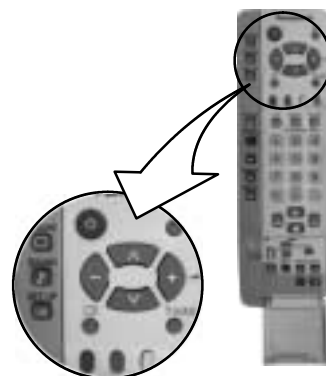Move to **Tuning menu** option

Access **Tuning menu**

Move to **Auto setup**

Access **Auto setup**

Press to confirm start

> **Note:**
> • **If you proceed with the next step all tuning data will be erased** (all stations and their programme positions stored in your TV's memory will be wiped out so the new settings can be stored).
>
> If you exit the procedure after this point and before **Auto setup** is complete, no station information will be stored. Restart and complete the Auto setup procedure so that the TV is retuned.

```
WARNING
All current tuning
data will be erased

STR     : Start Auto Setup
TV/AV  : To Exit
SETUP  : Return to tuning menu
```
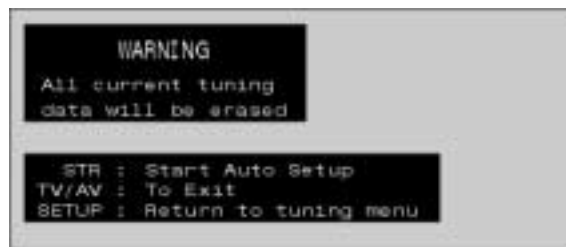
Press **STR** to start **Auto setup**

STR

The TV will search for, locate, store and then sort into order your local stations.

```
CH44

AUTO SETUP IN PROGRESS
SEARCHING  :  PLEASE WAIT
   Stored   CH44 BBC1

21                            68
SETUP  :  Return to tuning menu
TV/AV  :  To exit
```

If a compatible recording device is connected via the AV2 / AV4 socket, programme data will be sent to the device via Q-Link (see page 28).

Once this operation is completed the TV will display the programme now stored on programme position 1.
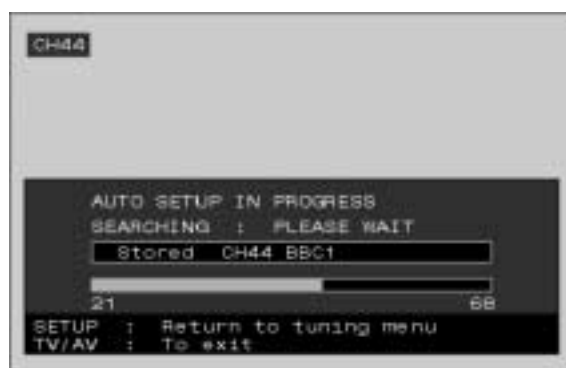
Press the **TV/AV** button at any time to go back to watching TV (please read the **Note** in the above procedure)

TV/AV

Tuning menu – Manual tuning

It is possible to retune individual programme positions:

Press the **SETUP** menu button

Move to **Tuning menu** option

Access **Tuning menu**

Move to **Manual tuning**

Access **Manual tuning**

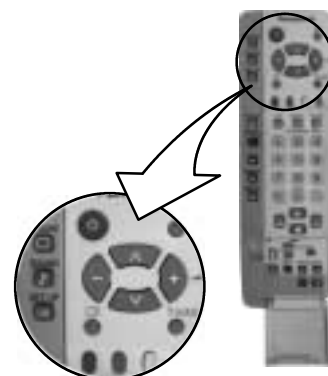Select the programme position to be tuned

Press repeatedly until required station is found

When the desired station is found, press **STR** to store. The programme position will flash
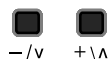
Press the **TV/AV** button at any time to go back to watching TV

SET UP

STR

TV/AV

Manual tuning (via front panel)

It is also possible to use the control panel buttons on the front of your TV to tune individual programme positions:

Press the **F** button (Front panel) until **Tuning mode** is reached

Press the **–** or **+** button to access **Tuning mode**

Press the **TV/AV** button to move between **Change programme** and **Search**

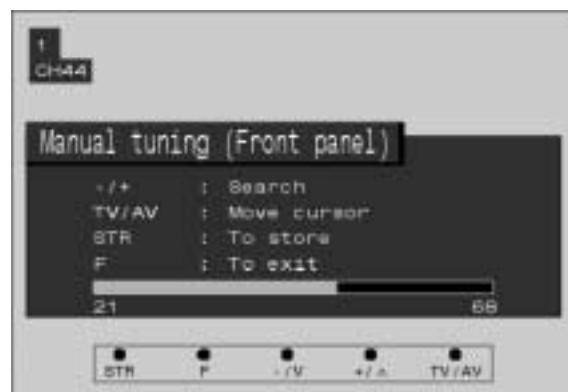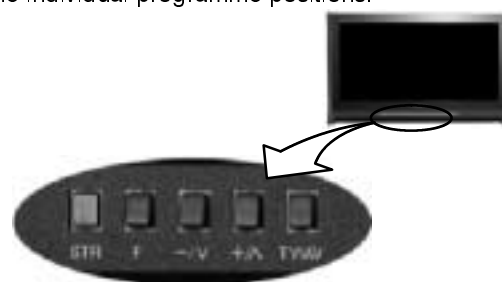Press the **–** or **+** button to change programme position or start search

When the desired station is found, press **STR** to store. The programme position will flash

Repeat above procedure to tune additional programme positions

Press the **F** button at any time to go back to watching TV

F

– / v   + \ ^

TV / AV

– / v   + \ ^

STR

F

Shipping condition

Shipping condition allows you to reset the TV to its original condition, i.e. no channels tuned in.
This is useful, for example, if you move to a different area when you will probably want the TV to tune itself to your new local stations.

This can be done either through the **Shipping condition** menu or through the **Auto setup** menu.

The **Shipping condition** menu will reset all data, clearing all tuning information and resetting all control levels back to factory settings.
You may need to adjust your VCR or programme position '0' VCR after operating the **Shipping condition** menu – refer to page 29.

Press the **SETUP** menu button

SET UP

Move to **Tuning menu** option

Access **Tuning menu**

Move to **Shipping condition**

Access **Shipping condition**

Press **STR** to start

STR

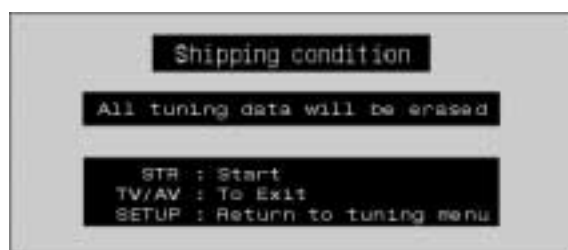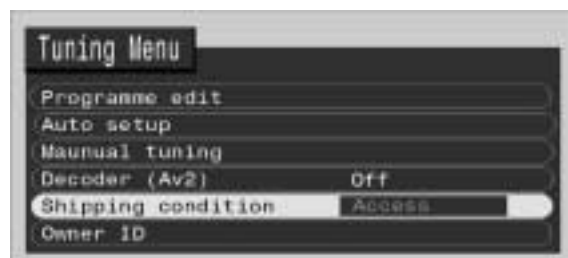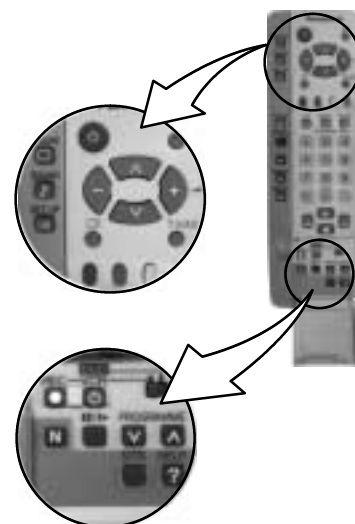Press again, to confirm, each time that you are asked, "Are you sure ?"

STR

Switch TV off and wait for a few seconds

Switch TV on again

Auto setup will begin, stations will be located, sorted and stored ready for use. See page 19.

Tuning Menu

Programme edit	
Auto setup	
Maunual tuning	
Decoder (Av2)	Off
Shipping condition	Access
Owner ID	

Shipping condition

All tuning data will be erased

STR : Start
TV/AV : To Exit
SETUP : Return to tuning menu

Owner ID

Owner ID allows you to enter a security code (Owner ID) and personal details into its memory, so that in the unfortunate event of theft it will help the police to trace the owner.

If you wish to check the personal details already entered into the TV, press the *F* button (Front panel) and hold for 6 seconds (initially the volume level function will appear, as you continue to hold down the *F* button it will disappear again, and the Owner ID information will appear). The details already entered are displayed on screen.

If *Owner ID* information was not entered when you switched on your TV for the first time or it is necessary to alter some of the information, *Owner ID* can be re-accessed via the *Tuning menu*.

Press the *SETUP* menu button
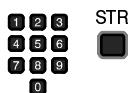
Move to *Tuning menu* option

Access *Tuning menu*

Move to *Owner ID*

Access *Owner ID*

If the *Owner ID* has previously been set, enter the *PIN NUMBER* (using 0 to 9 on the remote control) followed by *STR* to proceed, this will take you to the *NAME* option

If no *Owner ID* has previously been set, enter the required 4 digit *Owner ID PIN NUMBER* (using 0 to 9 on the remote control)

If a 4 digit *PIN NUMBER* was entered above, you will be taken automatically to the *NAME* line

If not, move to the *NAME* line

Change character

Select character position

Repeat above until *NAME*, *HOUSE NUMBER* and *POSTCODE* are entered

Press *STR* to store the details.
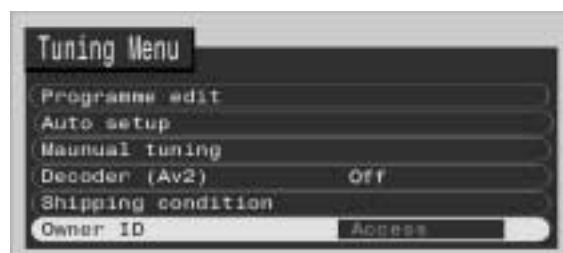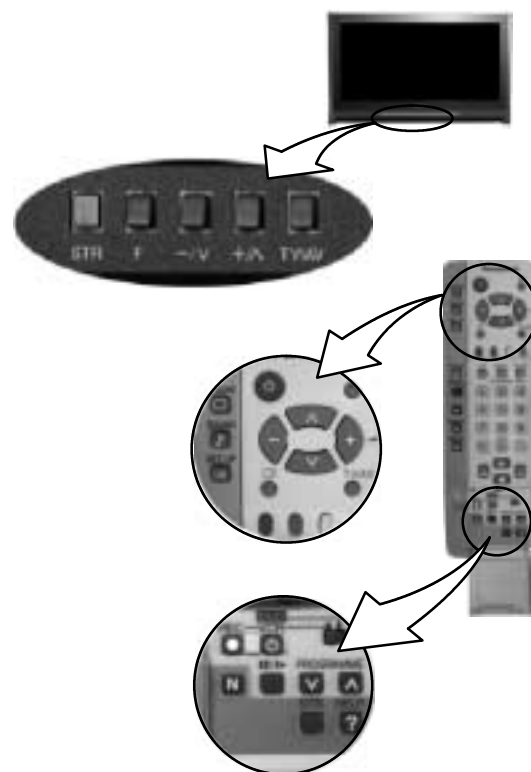Press again when you are asked, "Are you sure ?"

The *Tuning menu* will be displayed

Press the *TV/AV* button to exit

For future reference,
write your *PIN NUMBER* here :

_____   _____   _____   _____

Aspect Controls

The widescreen TV will allow you to enjoy viewing the picture at its optimum size and aspect, including widescreen 'cinema format' pictures.

Press the ASPECT button repeatedly to move through the seven aspect options: Panasonic Auto, 16:9, 14:9, 4:3, Zoom1,Zoom2 and Zoom3. OR

Press the ASPECT button then use the RED or GREEN buttons to move in either direction through the seven aspect options.
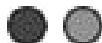
Panasonic Auto

Panasonic Auto determines the best aspect ratio to use to fill your screen. It does this using a four step process to determine if the picture being viewed is a widescreen picture.

If **Panasonic Auto** detects a widescreen signal it switches into the appropriate **16:9** or **14:9** widescreen mode. If **Panasonic Auto** does not detect a widescreen signal then this advanced TV set enhances the picture for optimum viewing pleasure.

The text shown on the screen indicates how **Panasonic Auto** determined which ratio to use:

'WIDE' appears in the top left of the screen if a widescreeen identification signal (WSS) is found or a signal found through a Scart socket. **Panasonic Auto** switches to the appropriate **16:9** or **14:9** widescreen ratio
'Panasonic Auto' appears in the top left of the screen if black stripes above and below the picture are detected. **Panasonic Auto** chooses the best ratio and expands the picture to fill the screen. This process can take several minutes, depending on the darkness of the picture.

You may prefer to manually select one of the other aspect options available to view the picture.

Notes:

- If, in Panasonic Auto mode, you experience problems with the screen display size when playing back widescreen format recordings from your VCR then it is possible that the tracking control of your VCR requires adjustment (your VCR instruction book will contain adjustment details).

- The widescreen aspect ratios of different films and programmes can vary. If these are wider than a standard 16:9 aspect picture then a black band may be visible at the top and bottom of the screen.

- In AV4C mode (progressive input only) the Aspect is reset to 16:9 mode.

WIDE

'WIDE' appears in the top left of the screen, **Panasonic Auto** switches to the appropriate 16:9 or 14:9 widescreen ratio.

Panasonic Auto

'Panasonic Auto' appears in the top left of the screen, The best ratio is chosen and the picture expanded to fill the screen.
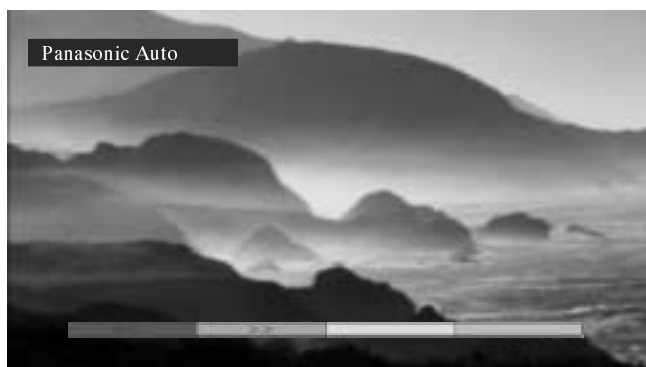
Panasonic Auto

Press the **ASPECT** button, then use the **RED** or **GREEN** buttons to move in either direction through the seven aspect options.

16:9

16:9 will display a true 16:9 (anamorphic) picture with no aspect distortions.

16:9

14:9

14:9 will display a 14:9 letterbox or 4:3 picture with no aspect distortions.

14:9

4:3

4:3 will display a 4:3 picture at its standard 4:3 size with no aspect distortions.

4:3

Zoom1

Zoom1 will display 16:9 letterbox or 4:3 pictures with no aspect distortions

Zoom1

Zoom2

Zoom2 will display 16:9 anamorphic letterbox pictures as a full screen display with no aspect distortions

Zoom2

Zoom3

Zoom3 will display 21:9 letterbox pictures as a full screen display with no aspect distortions

16:9 will display the picture at its maximum size but with slight stretching.

Zoom3

Multi window

Press the **MULTI WINDOW** button. Whilst the on screen selector keys are on screen, use the **red** and **green** buttons to move between the *picture and picture* feature, *picture out of picture* and *picture in picture* feature.

The on screen selector keys (corresponding to the four coloured buttons on the remote control) that appear for the features clear after a few seconds. If you want to select an operation when the keys are not shown, press the **MULTI WINDOW** button once more and the keys will reappear. Press the **MULTI WINDOW** button (whilst the selector keys are on screen) to return to normal viewing.

Picture and picture

Allows two pictures to be viewed at the same time. Press the **yellow** button to select the contents of the right window, switching between displaying a TV channel and all AV sources in turn.
Press the **blue** button to swap the contents of the two windows.
Use the remote control to select a TV channel or an AV source to appear in the left window.
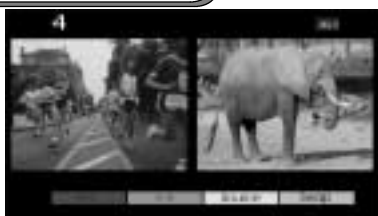
Picture and picture mode

Picture out of picture

This feature allows two programmes to be viewed at the same time, as *picture in picture* does. The difference is how the two programmes are displayed: in *picture in picture* the smaller window appears within the main image; in *picture out of picture* the smaller window appears to the right of the main image.
Press the **yellow** button to select the contents of the smaller window, switching between displaying a TV channel and all AV sources in turn.
Press the **blue** button to swap the contents of the two windows.
Use the remote control to select a TV channel or an AV source to appear in the main window.
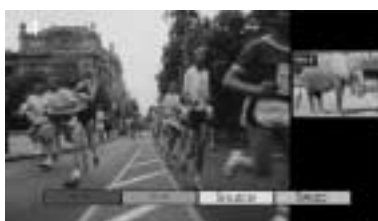
Picture out of picture mode

Picture in picture

Allows two pictures to be viewed at the same time. Press the **yellow** button to select the contents of the smaller window, switching between displaying a TV channel and all AV sources in turn.
Press the **blue** button to swap the contents of the two windows.
Use the remote control to select a TV channel or an AV source to appear in the main window.

Picture in picture mode

The two programmes have been swapped, the programme in the smaller window has become the main window programme.

INDEX / CH SEARCH — Channel search

Press the **CH SEARCH** button to show freeze−frames of the programmes being broadcast on all of the stored channels. These images are displayed in series , starting from the top left.

The feature cycles through the stored channels until either the **STILL** or the **CH SEARCH** button is pressed to exit the feature.

Press the **red** button to select each channel's freeze−frame in turn.

Press the **green** button to watch the selected channel, exiting the feature.

Press the **blue** button to watch the current programme, exiting the feature.

INDEX
CH SEARCH

HOLD   INDEX
STILL   CH SEARCH

Channel search

TV/TEXT — Picture and text

Press the **TV/TEXT** button, followed by the **MULTI WINDOW** button to move between viewing teletext and the **picture and text** feature. **Picture and text** lets you see the current programme and a page of teletext side by side.

Whilst using this feature, the remote control affects the teletext page; if you wish to make changes to the programme viewed press the **TVTEXT** button to return to watching the programme on its own then make the desired changes.

TV/TEXT   MULTI WINDOW
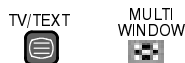
TELETEXT mode   *Picture and text* mode

HOLD / STILL — Still

Press to freeze the picture, press again to return to watching the current programme.

HOLD
STILL

Q-Link allows the television to communicate with a compatible VCR or DVD Recorder.

For Q-Link communication to work, the TV must be connected to a recording device with the "Q-Link", "NEXTVIEWLINK", "DATA LOGIC", "Easy Link", "Megalogic" or "SMARTLINK" logo using a "fully wired" Scart cable between the AV2 socket of the television and the appropriate socket on your VCR, and the AV4 socket of the television and the appropriate socket on your DVD Recorder.

For connection to the appropriate Scart socket on the recording device, refer to the device's operating instruction book.

When using a "NEXTVIEWLINK" device the main features possible are the following :

Preset Download

This allows the programme order from the TV to be downloaded to the recording device, helping to ensure that correct recordings are made; there are several ways to perform this operation :

1. During installation as explained in the 'Quick Start Guide' beginning on page 9.
2. When Auto setup is started from within the Tuning menu, see page 19.
3. Preset download started from the recording device, refer to the device's operating instruction book.

Important Note:

Not all recording devices support this type of data communication system. Some may support certain features, but not others. Refer to the recording device's operating instruction book.

If Q-Link is inoperative, first confirm that your Scart cable is a "fully wired" type. Ask your dealer for further details.

What You See Is What You Record (DIRECT TV RECORDING)

This will allow the immediate recording of the programme currently shown on the television, by the record-ing device attached to the Scart socket, which can be chosen using "Q−Link". (see page 15).

Press the **DIRECT TV REC** button on the remote control.

If the recording device is in Standby mode with usable recording media inserted, it will automatically switch on when you press the **DIRECT TV REC** button.

If a "Q-Link" device is connected, a message will appear on the TV screen showing what is being recorded, or if it is not possible to record. Some "Q-Link" compatible devices will only display the message when on the VCR programme position(0) or in AV mode. Refer to the device's operating instruction book.

Recording in progress

The recording device is recording the programme signal from its own tuner. If you wish you can switch off the TV and leave the device recording in the normal way.

No recording - Check tape or disc

The tape or disc may have been "write protected", missing or may be damaged. The device may already be recording. Refer to the device's operating instruction book.

Additionally, when using a "Q-Link" device the main features possible are the following :

The following features are only available from the device connected to the scart socket selected using "Q−Link". (see page 15).

TV / Recording device Auto Power On

If you insert pre−recorded media into the recording device and press the Play button whilst the TV is in 'Standby' mode, the TV will automatically switch on and select the correct AV input so that you can view the content.

Recording device Auto Power Standby

When the TV is switched into 'Standby' mode, the recording device will also switch into 'Standby' mode if there is no media inserted, or if there is media inserted and the device is in 'Rewind' or 'Stop' mode. If a VCR is rewinding a tape, it will not switch into 'Standby' mode until rewinding has finished.

Recording device Image View On

If the TV is in Standby mode and the recording device sends a menu to be displayed on the TV screen (e.g. Main menu), the TV will automatically switch On and the menu will be displayed.

Some other devices may support this feature. Refer to the device's operating instruction book.

This TV will also communicate with other recording device's that bear the following logos :

- **"DATA LOGIC"** (a trademark of Metz Corporation).
- **"Megalogic"** (a trademark of Grundig Corporation).
- **"Easy Link"** (a trademark of Philips Corporation).
- **"SMARTLINK"** (a trademark of Sony Corporation).

Important Note:

These recording devices may support some or all of the above functions. Refer to the device's operating instruction book.

Not all recording devices support this type of data communication system. Some may support certain features, but not others. Refer to the device's operating instruction book. Some features are only available from the device connected to the scart socket selected using "Q−Link". (see page 15).

If Q-Link is inoperative, first confirm that your Scart cable is a "fully wired" type. Ask your dealer for further details.

Tuning your VCR, DVD recorder and satellite receiver

Your new TV is supplied with programme position '0' set to receive an RF signal from your VCR or DVD recorder, although a Scart connection is preferable if the device is so equipped (see page 34 for suitable inputs to each of the Scart sockets on this TV). However, if for some reason your recording device is tuned to a different RF channel then you will not receive any picture or sound from your VCR on programme position '0' of the TV. Either adjust the tuning of the TV's programme position '0' (follow the instructions below) or adjust the RF channel of your recording device (some devices allow adjustment of their RF channel via their remote control unit) or both until the TV receives the RF output channel of your recording device.
It is intended that this advice is used in conjunction with the instruction books for your additional equipment.

Tuning your TV to the VCR

Switch on the VCR / DVD recorder, insert and play a pre-recorded tape / disc with known content

Press the **SETUP** menu button

SET UP

Move to **Tuning menu** option

Access **Tuning menu**

Move to **Manual tuning**

Access **Manual tuning**

Select programme position '0' VCR

Start searching for the playback of the known content tape or disc

When the playback is found, press **STR** to store

STR

Press the **TV/AV** button to exit

TV/AV

Notes:

- If picture patterning occurs on programme position '0' it may be necessary to adjust the RF output channel of the recording device, refer to the device's instruction book.
- If a Satellite Receiver and a recording device are going to be used with RF cable connections it is important to avoid both units being set on the same channel.
  Refer to the Satellite Receiver and recording device's instruction books for precise tuning information.
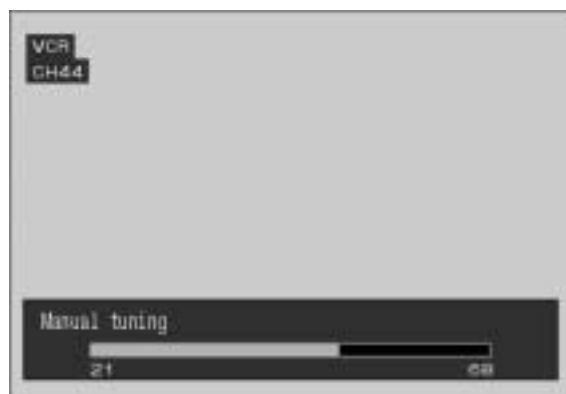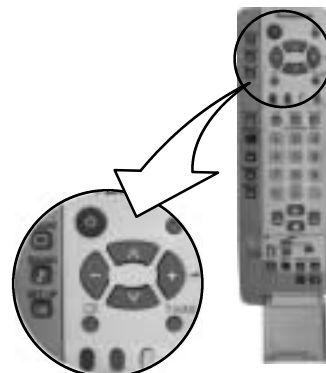
The tape or disc with known content is found and displayed. Pressing **STR** will store the setting.

VCR / DVD operation

The Remote Control is capable of operating some functions of selected Panasonic VCRs and DVD (Digital Versatile Disc) equipment. Some VCR and DVD equipment have different functions, so to ensure compatibility please refer to the equipment's instruction book or consult your dealer for details.

Standby

Press to switch the VCR, DVD or DVD recorder to standby mode.
Press again to switch back on.

VCR / DVD switch

Use this switch to select whether controls operate DVD equipment or your VCR.

Play

Press to playback the tape or DVD.

Stop

Press to stop the tape or DVD.

Skip / Fast Forward / Cue

VCR: Press to fast forward the tape. In Play mode, press to view the picture rapidly forward (Cue).
DVD: Press once to skip to the next track.

Skip / Rewind / Review

VCR: Press to rewind the tape. In Play mode, press to view the picture rapidly in reverse (Review).
DVD: Press once to skip to the previous track.

Pause / Still

Press in playback mode, the picture will pause.
Press again to restart play.

Programme Up / Down

Press to increase or decrease the VCR programme position by one.

Record

Press this button to start recording.

Teletext operation

- Teletext features may vary depending on the Broadcasting Companies and is only available if the channel selected is transmitting Teletext.
- Pressing the Picture button whilst in Teletext operation will display the contrast function with a cyan bar, press ◄ ► to alter the setting as required.
- Pressing the Sound Menu button ♪ whilst in Teletext operation will display the volume function with a green bar, press ◄ ► to alter the setting as required.
  (**Note:** Pressing the Sound mute button whilst in Teletext operation will also display the volume function with a green bar.)
- Pressing the Setup button whilst in Teletext operation will display special function options at the bottom of the screen.

What is LIST mode ?

In LIST mode, four differently coloured page numbers are situated at the bottom of the screen. Each of these numbers can be altered and stored in the TV's memory.

What is FASTEXT?

In FASTEXT mode, four differently coloured subjects are situated at the bottom of the display. To access more information about one of these subjects, press the appropriately coloured button. This facility enables fast access to information on the subjects shown.

TV/TEXT

TV / Teletext mode

Press the **TV/TEXT** button to switch between the current programme, teletext and the **picture and text** feature (lets you see the current programme and teletext side by side, see page 27).

Page Selection

Pages can be selected in two ways :
a. Press the Up / Down buttons to increase or decrease the page number by one.
b. By entering the page number, using 0 – 9 on the remote control.
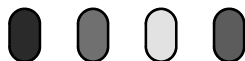

SET UP

Full / Top / Bottom

Press the **SET UP** button to display special functions, followed by the **Green** button.
Press the **Green** button again to expand the BOTTOM half.
Press again to return to normal (FULL) size.

SET UP

Reveal

Press the **SET UP** button to display special functions, followed by the **Red** button to reveal hidden words e.g. quiz page answers. Press again to hide.

Red / Green / Yellow / Blue buttons

In FASTEXT mode these correspond to the differently coloured subjects.
In LIST mode they correspond to the differently coloured page numbers.

STR
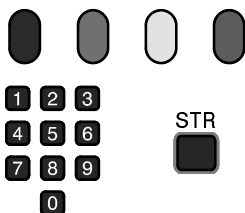
List Store

In LIST mode the four page numbers can be altered (programme positions 1 – 25 only).
To do this, press one of the four coloured buttons and enter the new page number.
Press and hold **STR**, the page numbers will change to white indicating that the page is stored.
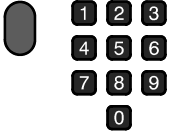

HOLD

Hold

To hold the Teletext page when viewing multi–page information.
Press again to return to automatic page update.

It is not possible to change the programme position when in News flash, Update or Sub Coded Page Access operation.

Favourite Page (F.P.)

Stores a favourite page in memory for instant recall. To store such a page, the TV must be in LIST mode, and the programme position must be from 1 – 25.

Press the **Blue** button, select the page number, then press and hold the **STR** button. The page number is now stored.

Press **F.P.** to recall this page.

Update Display

Press the **SET UP** button to display special functions, followed by the **Yellow** button to view the TV picture whilst searching for a Teletext page (this is not necessary in *picture and text* mode, as the picture is displayed on the left of the screen). When found, the screen will display the page number at the top left. Press the **Yellow** button to view the page.

Press **TV / TEXT** again to return to normal TV operation.

News Flash

When a news flash page has been selected, press **SET UP**, **Yellow**, to view the TV picture. When an update is received, the page number will be displayed on screen.

Press the **Yellow** button to display the News Flash

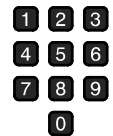Press **TV / TEXT** to return to normal TV. operation.

Update

Press **SET UP**, **Yellow** to see the update of information on certain pages.

When an update is received, the page number will be displayed at the top left of the screen.

Press the **Yellow** button to view the page.

Press **TV / TEXT** to return to normal TV operation.

Accessing sub pages

When Teletext information exceeds one page, it may take some time for the automatic changing of the sub pages to reach the sub page you require. As each sub page is found its number is displayed at the top of the page so that you may select it; as more sub pages are picked up, the display at the top of the page changes, so that you are always offered the most recently transmitted selection of sub pages.

In *picture and text* mode, use the left and right cursor buttons to select a sub page from the range displayed at the top of the Teletext window.

In Teletext operation, use the following procedure to access sub pages:

If the sub page you want to look at is not yet available, press the *SETUP* button (to display special functions) followed by the *Yellow* button to view the TV picture whilst waiting for more sub pages to be found. The sub pages found will be displayed across the top of the screen.

When the sub page you are waiting for is available press the **Yellow** button to return to viewing the Teletext pages, then use the left and right cursor buttons to select the sub page of your choice.

Notes:
- If you do not want the four coloured special function keys to be displayed on the TV picture while waiting for a sub page to be found, press either the *PICTURE*, *SOUND* or *SETUP* menu button to clear the keys from the screen. Press the *SETUP* key once more to redisplay the keys.
- If you have cleared the special function keys from the screen and then used the left and right cursor buttons to select a sub page, whilst still viewing the TV picture, you must press the *SETUP* button then the *Yellow* button to display the Teletext page again.
- If the top of the page indicates that sub pages are being transmitted but the page displayed never changes, then the 'sub page number' is there to show the page contents have been updated, there are no sub pages.

Alternatively, if you know which sub page you require, press the *SETUP* button (to display special functions) followed by the **Blue** button; T**** will be displayed where the page number is normally found.

Enter desired sub page number before the T**** disappears.

For example, to select page 6 enter 0, 0, 0 and 6.

Press the **Yellow** button to view the TV picture whilst waiting for more sub pages to be found. The sub pages found will be displayed across the top of the screen.

When the page is available, press the **Yellow** button to view the page. Regardless of how many pages are found, pressing the Yellow button will take you to the sub page which you requested.

Press *TV/TEXT* to return to normal TV operation.

Index

When in FLOF operation

Press **INDEX** to return to the main index page.

Depending on the way information is transmitted, this may have to be pressed more than once to return to the main index page.

Audio / video connections

It is possible to connect a variety of additional equipment to this TV. The following pages detail how to connect external equipment to both the front and rear of the TV.

Once your equipment is connected, use the following procedure to view the input:

Press the **TV/AV** button

Press the relevant on screen selector key to select the AV source you wish to view. To select the S – VHS inputs on **AV2** and **AV4** (**AV2/S** and **AV4/S**), press the relevant coloured button to select either **AV2** or **AV4**, then press again to select the S – VHS input (for example: press the green button to select **AV2** if you have connected a VCR to the **AV2** Scart socket; if you have a S – VHS VCR, you should press the green button again to select **AV2/S**. Pressing the green button again switches back to **AV2**.)

The on screen selector keys that appear clear after a few seconds. If you want to select an input when the keys are not shown, press the **TV/AV** key once more and the keys will reappear.
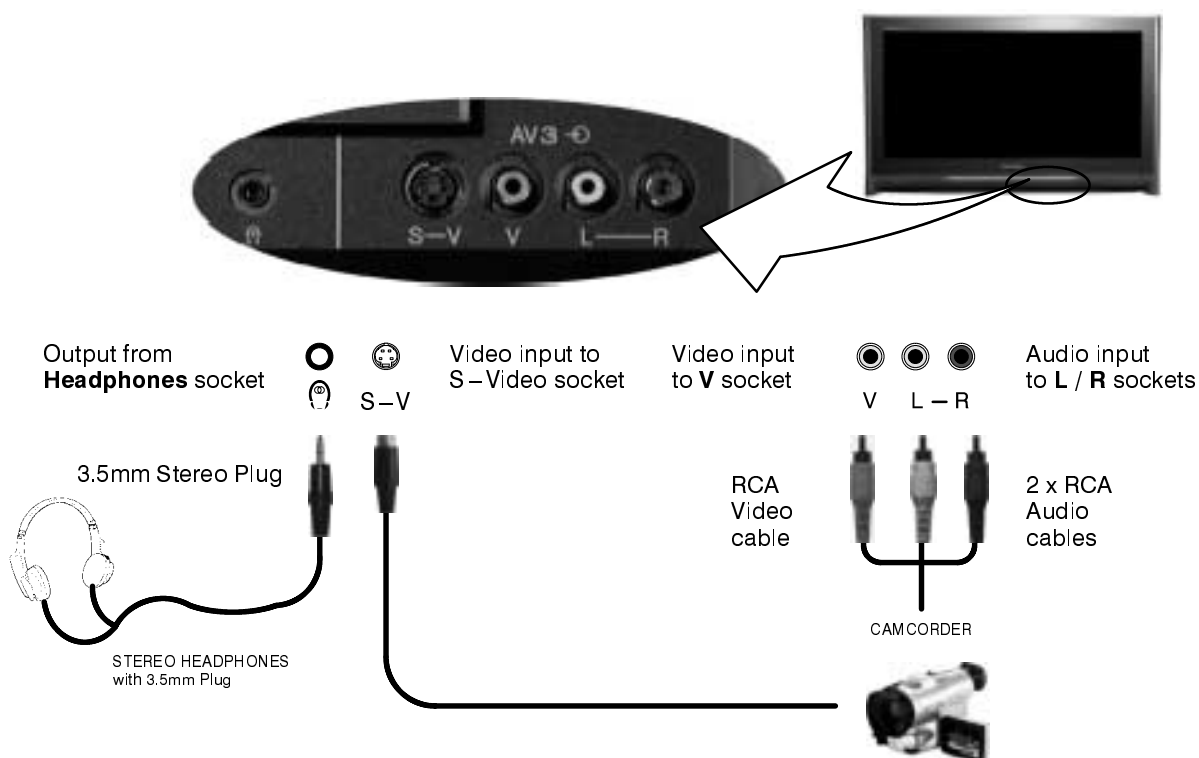
TV/AV

TV/AV

Notes:
● You can also select an AV source using the **TV/AV** button on the control panel on the front of your TV.
  Press the **TV/AV** button repeatedly until you reach the AV source you wish to view.
● When in **AV mode** a reduced number of options are available in the **SOUND** and **SETUP** menus (eg: in the Setup menu there is no **Tuning menu** option).
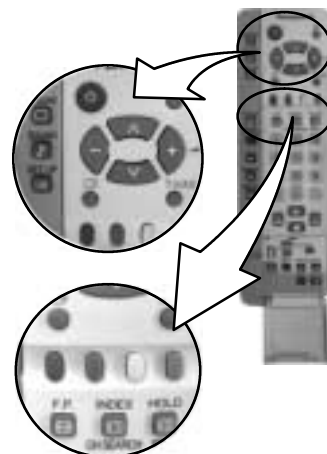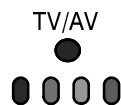
Front sockets

Additional equipment can be connected at the front of the TV via a 4 pin S – Video socket (AV3), RCA Audio / Video sockets (AV3) and a headphone socket.
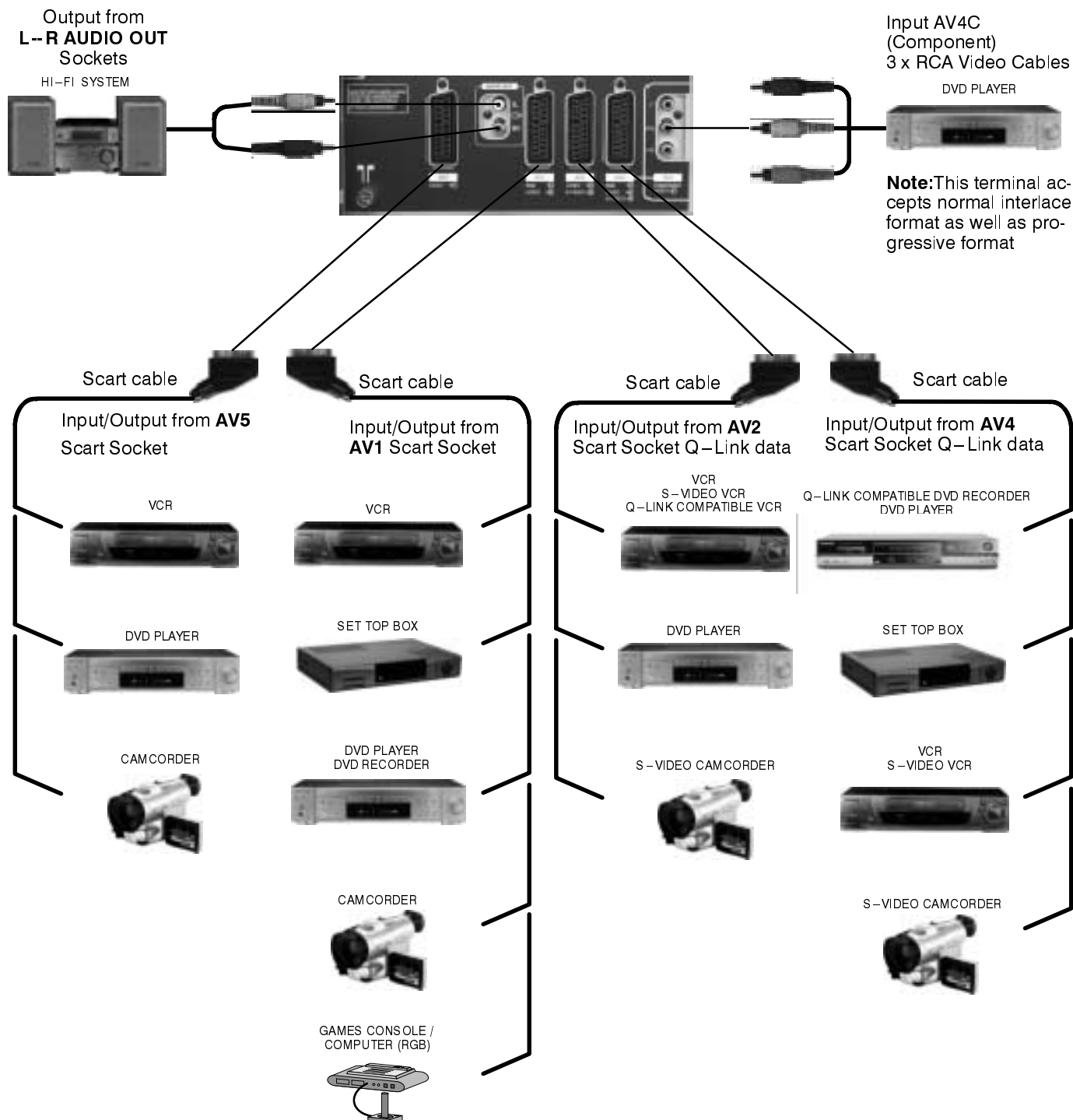
Output from **Headphones** socket

S – V

Video input to S – Video socket

Video input to **V** socket

V   L – R

Audio input to **L / R** sockets

3.5mm Stereo Plug

STEREO HEADPHONES with 3.5mm Plug

RCA Video cable

2 x RCA Audio cables

CAMCORDER

Notes:
● Additional equipment and cables shown are not supplied with this TV set.
● For S – Video socket wiring information see page 36.

Audio / video connections

Additional equipment can be connected at the rear of the TV via four 21 pin Scart sockets, AV1 / AV2(S) / AV4(S / C) /AV5.
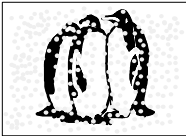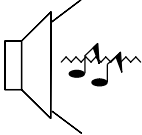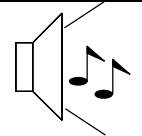
Output from
L -- R AUDIO OUT
Sockets

HI – FI SYSTEM

Input AV4C
(Component)
3 x RCA Video Cables

DVD PLAYER

Note: This terminal accepts normal interlace format as well as progressive format

Scart cable

Scart cable

Scart cable

Scart cable

Input/Output from **AV5** Scart Socket

Input/Output from **AV1** Scart Socket

Input/Output from **AV2** Scart Socket Q – Link data

Input/Output from **AV4** Scart Socket Q – Link data

Input/Output from AV5	Input/Output from AV1	Input/Output from AV2	Input/Output from AV4
VCR	VCR	VCR S – VIDEO VCR Q – LINK COMPATIBLE VCR	Q – LINK COMPATIBLE DVD RECORDER DVD PLAYER
DVD PLAYER	SET TOP BOX	DVD PLAYER	SET TOP BOX
CAMCORDER	DVD PLAYER DVD RECORDER	S – VIDEO CAMCORDER	VCR S – VIDEO VCR
	CAMCORDER		S – VIDEO CAMCORDER
	GAMES CONSOLE / COMPUTER (RGB)		

Notes:
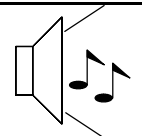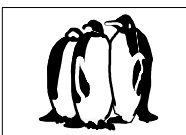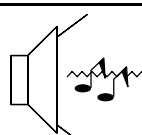- Additional equipment and cables shown are not supplied with this TV set.
- Do not connect a computer with TTL output (5V) to this set.
- For Scart socket wiring information see page 36.
- Component video input is for video only, you will also need to connect scart cable to AV4 for audio capability.
- When connecting component input to AV4 manually switch to AV4C. Some features may be limited in this mode.
- AV4/S is not available with Component input connected
- In AV4C mode (component and progressive input) AV2 monitor out will not be available.
- Confirm, when using AV4C, that connected external device (e.g. DVD Player) is not set to RGB.
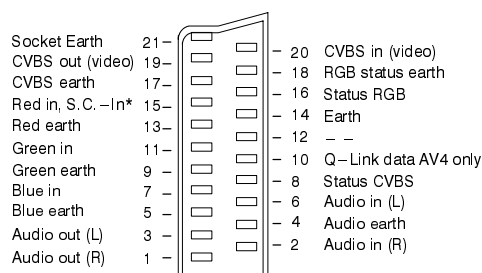
Troubleshooting

If there is a problem with your TV please refer to the table below to determine the symptoms, then carry out the suggested check. If this does not solve the problem, please contact your local Panasonic dealer, quoting the model number and serial number (both found on the rear of the TV).

Symptoms		Checks
Picture	**Sound**	
Snowy Picture	Noisy Sound	Aerial location, direction or connection
Multiple Images	Normal Sound	Aerial location, direction or connection
Interference	Noisy Sound	Electrical appliances Cars / Motorcycles Fluorescent lights Switch on P−NR in Picture menu to reduce picture noise
Normal Picture	No Sound	Volume level Sound mute switched on
No Picture	No Sound	TV set to AV mode Not plugged into A.C. outlet Not switched on Picture / Sound controls set at minimum levels Check if in standby mode
No Colour	Normal Sound	Colour controls set at minimum levels
Poor or Distorted Picture	Weak or No Sound	Retune Channel(s)
Coloured Patches	Normal Sound	Magnetic Interference from unshielded equipment TV moved while switched On, switch TV off for 30 minutes. If picture is also tilted, use Geomagnetic Correction feature (see Quick Start Guide, page 11)
Normal Picture	Weak or distorted sound	Sound reception may have deteriorated. Switch NICAM setting (Sound menu) to Off until reception improves.

AV1 / AV4 Scart socket (S−Video, Q--Link -- AV4 only)

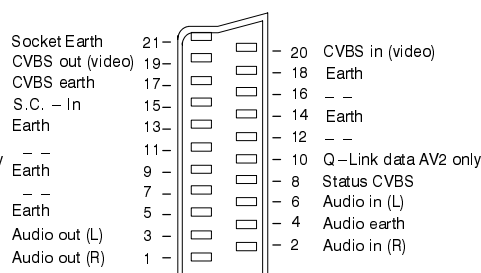|			
Socket Earth	21−	− 20	CVBS in (video)
CVBS out (video)	19−	− 18	RGB status earth
CVBS earth	17−	− 16	Status RGB
Red in, S.C.−In*	15−	− 14	Earth
Red earth	13−	− 12	− −
Green in	11−	− 10	Q−Link data AV4 only
Green earth	9 −	− 8	Status CVBS
Blue in	7 −	− 6	Audio in (L)
Blue earth	5 −	− 4	Audio earth
Audio out (L)	3 −	− 2	Audio in (R)
Audio out (R)	1 −		

Suitable inputs for **AV1** / **AV4** include RGB (Red/Green/Blue).

S.C.−In* : on Pin 15 'S.C.−In' only applies to **AV4**.

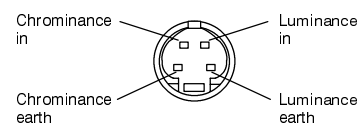**AV4** : Pins 15 and 20 are dependent on AV4 S−VHS / VIDEO switching.

AV2 Scart socket (S--Video, Q−Link) (S−Video, Q--Link -- AV2 only)

Socket Earth	21−	− 20	CVBS in (video)
CVBS out (video)	19−	− 18	Earth
CVBS earth	17−	− 16	− −
S.C. − In	15−	− 14	Earth
Earth	13−	− 12	− −
	11−	− 10	Q−Link data AV2 only
Earth	9 −	− 8	Status CVBS
	7 −	− 6	Audio in (L)
Earth	5 −	− 4	Audio earth
Audio out (L)	3 −	− 2	Audio in (R)
Audio out (R)	1 −		

S.C.−In* : on Pin 15 'S.C.−In' only applies to **AV2**.
AV2 : Pins 15 and 20 are dependent on AV2 S−VHS / VIDEO switching.

AV3 S--Video 4 pin socket

Chrominance in
Luminance in
Chrominance earth
Luminance earth

Specifications

		TX−36PD30
Power Source		220 − 240V 50Hz a.c.
Power Consumption		158W
Standby Consumption		0,5W
Picture Tube Visible Diagonal		86 cm
Audio Output Music Power		Subwoofer 24W, Left / Right 20W x 2 (MPO).
Dimensions	H W D	644 mm 897 mm 588 mm
Weight (kg)		82
Receiving Systems/ Band name		**PAL I** UHF E21 − 68 **PAL 525/60** Playback of NTSC tape from some PAL video recorders (VCR) **M.NTSC** Playback from M.NTSC Videorecorders (VCR) **NTSC (AV input only)** Playback from NTSC Videorecorders (VCR)
Aerial − Rear		UHF
Headphones -- Front		3.5mm, 8Ω impedance
AV − Rear		**AV1** − 21 pin socket − Audio / Video in / out, RGB in **AV2** − 21 pin socket − Audio / Video in/out, S−Video in, Q−Link **AV4** − 21 pin socket − Audio / Video in / out, S−Video in, RGB in, Q−Link **AV4(C)** − Component in (Y, Pb, Pr) **AV5** − 21 pin socket − Audio / Video in / out 2 x RCA Audio monitor out
AV − Front		**AV3 --** S−Video in, 1 x RCA Video in, 2 x RCA Audio in

Specifications are subject to change without notice. Weight and dimensions shown are approximate.

VIRTUAL DOLBY SURROUND

Dolby Virtual and the DD are trademarks of Dolby Laboratories.
Manufactured under license from Dolby Laboratories

Notes

Notes

Notes

Panasonic

Sales and Support Information

Customer Care Centre

- For UK customers: **08705 357357**.
- For Republic of Ireland customers: **01 289 8333**.
- Visit our website for product information **www.panasonic.co.uk**.
- E−mail: **customer.care@panasonic.co.uk**.

Direct Sales at Panasonic UK

- Order accessory and consumable items for your product with ease and confidence by telephoning our Customer Care Centre Mon−Friday 9:00am−5:30pm (Excluding public holidays).
- Or go on line through our Internet Accessory ordering application at **www.panasonic.co.uk**.
- Most major credit and debit cards accepted.
- All enquiries, transactions and distribution facilities are provided directly by Panasonic UK Ltd.
- It couldn't be simpler!
- Also available through our internet is direct shopping for a wide range of finished products, take a browse on our website for further details.

Panasonic (U.K.) Ltd
Willoughby Road, Bracknell,
Berks RG12 8FP

© Matsushita Electric (U.K.) Ltd